

## Abstract

The present invention creates a viscosity sensor system for measuring the viscosity of a liquid (10) and at least one additional property of the liquid using a piezoelectric viscosity sensor device (5) that is situated completely in the liquid (10) that is to be measured, and that has:

- 5 electrical contact points (6) for an electrical controlling of volume oscillations on its surface, these contact points being resistant in relation to the liquid (10); first electrical supply lines (7) that are resistant in relation to the liquid (10) and that are connected on the one hand with a control/evaluation electronics unit situated outside the liquid (10) and on the other hand with the contact points (6) on the surface of the viscosity sensor device (5); and a second
- 10 sensor device (50; 50'; 60; 60') for acquiring the at least one additional property of the liquid, this second device being provided on the surface of the viscosity sensor device (5) and having electrical contact points (58) on the surface of the viscosity sensor device (5) for an electrical controlling, these electrical contact points being resistant in relation to the liquid (10); and second electrical supply lines (7'; 7'') that are resistant in relation to the liquid (10) and that
- 15 are connected on the one hand to the control/evaluation electronics unit situated outside the liquid (10) and on the other hand to the contact points of the second sensor device (50; 50'; 60; 60').

(Figure 1)